

Notice of Allowability	Application No.	Applicant(s)
	10/690,752	BELL, JOSEPH A.
	Examiner	Art Unit
	Arnold Castro	3747

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ The drawings filed on 22 October 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:
2. The application has two independent claims 1 and 7. Claim 1 states a vehicle engine ignition control system, comprising: a starter solenoid and motor; engine control electronics; an engine coupled to the motor for starting and to the engine control electronics for control of its operation; a multiple position ignition switch having first and second outputs which assume energized states in response to positioning of a key switch, the second output being energized in response to positioning of the key switch in an ignition position and in a start position; a remote switch providing a connection to ground when closed; a controller communicating with the engine control electronics and coupled to the remote switch to be responsive to closure of the remote switch and indication that the engine is not currently operating for providing a remote start energization signal; a remote start relay coupled to respond to the remote start energization signal occurring concurrently with closure of the remote start switch for providing an activation signal on an output; and a starter relay coupled to respond to energization of the first output and the multiple position ignition switch or to the activation signal from the remote start relay for providing activation energization to the starter solenoid and motor. The above combination was not found or suggested in the prior art. Claims 2-6 depend from claim 1 and are therefore allowable. Claim 7 states A utility truck with remote engine shut down and startup, comprising: an electrical power source; an engine; a starter motor mechanically coupled to the engine and starter solenoid for connecting the starter motor to the electrical power source; a starter relay

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for supplying electrical power from the electrical power source to the starter solenoid; a multiple position ignition switch having an output energized by placing a key switch in at least one position other than an off position; a remote switch having a default open position and a closed position; an electrical system controller connected to detect the movement of the remote switch to the closed position, the electrical system controller being responsive to detecting of movement of the remote switch concurrent with the engine running for supplying a first ground connection on a remote stop relay enable port and for detection of movement of the remote switch concurrent with the engine not running for supplying a remote start relay energization signal on a start signal port; and a remote start relay connected by an input to respond to the remote start relay energization signal on the start signal port of the electrical system controller for connecting the output of the multiple position ignition switch by an output to an input of the starter relay, the starter relay being responsive energization of the output of the multiple position ignition switch for providing an activation signal to the starter solenoid. Claims 8-15 depend from claim 7 and are therefore allowable.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

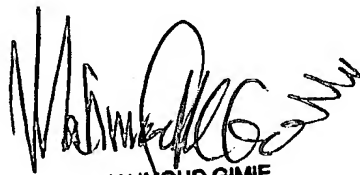
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold Castro whose telephone number is (703) 305-0039. The examiner can normally be reached on 7:30am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yuen Henry can be reached on (703) 308-1946. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AC


MAHMOUD GIMIE
PRIMARY PATENT EXAMINER
ART UNIT 3747


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